

PATH

Action Log Report

Page 1 of 2
2020/01/13

Title:	Watercourse realignment, Sherridon mine remediation project, Sherridon	Report Date:	2020/01/13
PATH File No.:	17HCAA-00076	Habitat File No.:	

Activity:	Site Visit	Action ID No.:	29
To:		Action Date:	May 14, 2019
From:		Document Date:	
Description:	Follow up monitoring was conducted to ensure that adequate flows and the presence of spring spawning fishes (Suckers and Walleye) were accessing and potentially spawning in Lower Sherill Creek.	Effective Date:	
Action:	No Change/No Action Required for this Activity	Expiry Date - HADD/Serious Harm:	
Time Spent (Hrs):	16.00	Expiry Date - Other :	
Authorization Rationale:		Compensation/Offsetting:	
		Included in List of Records:	
		Species at Risk:	

Title: PATH File No.:	Watercourse realignment, Sherridon mine remediation project, Sherridon 17-HCAA-00076	Habitat File No:	Receive Date: 2017/02/07
Activity: To:	Site Visit	Action ID No.: Action Date: Document Date:	27 May 08, 2018
Description:	Site visit in Spring 2018 to determine if walleye and suckers were using Lower Sheridn Creek. Observations and dip netting was used to confirm that walleye and suckers were found in Lower Sheridn Creek. Fish are either spawning in the creek or upstream of the diversion channel as many fish were observed upstream.		
	The rerouting of the creek is anticipated to take place in July-September 2018. Follow up monitoring will take place in Lower Sheridn Creek in spring 2019 to determine if there are any changes to fish use or habitat in the creek.		
Action:	No Change/No Action Required for this Activity	Effective Date: Expiry Date - HADD/Serious Harm: Expiry Date - Other :	
		Compensation/Offsetting: Included in List of Records: Species at Risk:	
Time Spent (Hrs): Authorization Rationale:	0.00		

000003

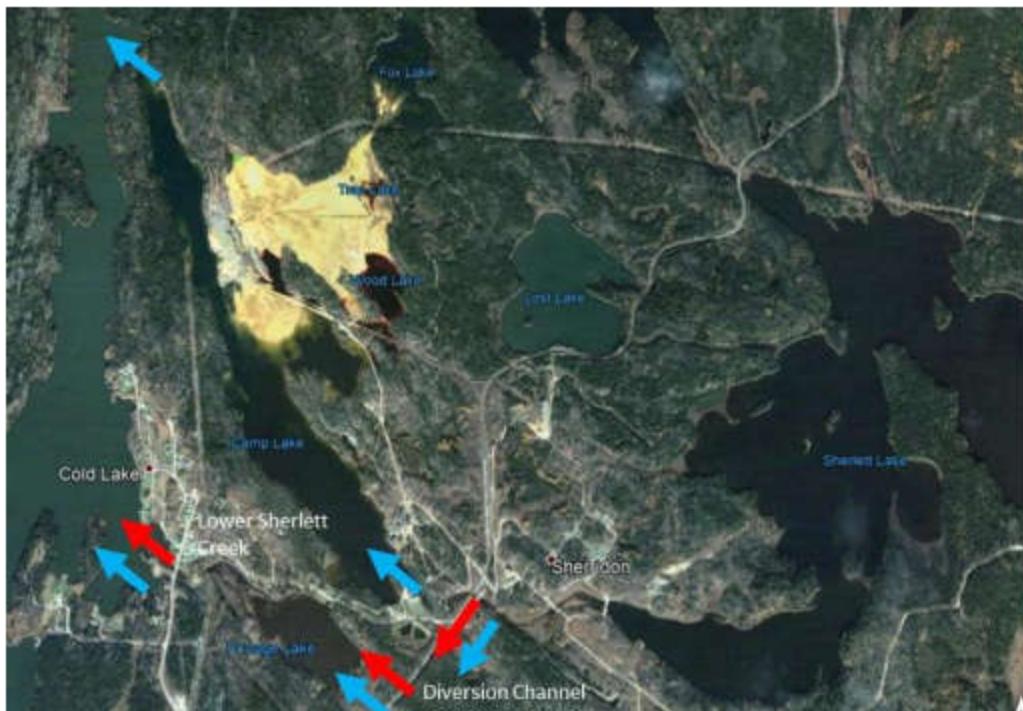
Reach	2	3.00
Average	4.87	St Dev
Wetted Width	0.65	5.11
Depth	0.46	1.80
	0.08	0.46
		0.11

Date	Time	Reach	Species	Sex	Ripe?	Length	Observed/Caught	Count
8-May-18	Night		2 WALL		Unknown		Observed	
9-May-18	12:00		3 WALL	Male	Yes	15"	Caught	
9-May-18	12:00		3 WHSC	Male	Yes	14"	Caught	
9-May-18	15:00		3 WHSC	Male	Yes		Caught	
9-May-18	15:00		3 WHSC		Unknown		Observed	
9-May-18	15:00		3 WALL	Female	Yes		Caught	

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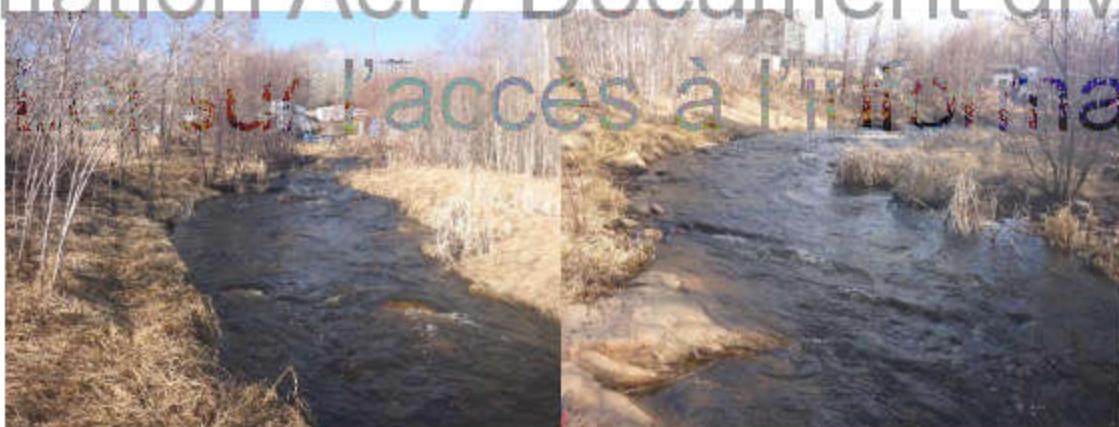
Sherridon Sampling – May 2019 – Summary

- On May 14-15, 2019 Matt Martens and Phil Curtis conducted a site-visit to the Sherridon Mine site to determine if the rerouting of flow as proposed by the proponent (Manitoba Growth Enterprise and Trade) had the potential to cause *serious harm to fish* as a result of the reduction in flow to Lower Sherlett Creek, a confirmed spring spawning area for fishes (Walleye and Suckers) as evidenced by 2018 DFO-FFHPP data;



- Prior to 2019, water flowed following the red arrows (see above). Camp Lake which was used for mine tailings was isolated from the main flow coming from Sherlett Lake and a diversion channel pushed water through Portage Lake, Lower Sherlett Creek and eventually Cold Lake (Kississing Lake). As of summer 2018, under LOA 17-HCAA-00076, water was split between the diversion channel and back into Camp Lake and into Cold Lake to complete the remediation of the Camp Lake (blue arrows);
- The purpose of the 2019 sampling was to determine if the rerouting of water would diminish local fish the ability to access and utilize Lower Sherlett Creek for spring spawning and egg incubation;
- On average, wetted width in Lower Sherlett Creek was similar to previous years (DFO and Tetratech sampled; around 5 m). Water velocity at 60% depth ranged from 0.20 m/s in back-eddies to 1.11 m/s at the upstream reaches in the thalweg. Water depth within the riffles was about 0.30 m and water temperature ranged from 9.4 to 9.9 degrees Celsius. Below I have included a photo from a similar vantage point for 2019 (left) and 2018 (right) in Reach 2 of Lower Sherlett Creek for reference;

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- Approximately 30 Walleye on each night (in spawning condition – looked to be mostly males) and 100's of White Sucker and Longnose Sucker also in spawning condition were observed staging in all reaches of the creek as well as upstream all the way to the stop log control structure at the outfall of Sherlett Lake;
- Fish were also observed staging at the newly notched cofferdam into Camp Lake. The capped culverts into the diversion channel seemed to be functioning well (pictures below);



- The newly opened outlet to Camp Lake was also flowing at a steady rate and sucker and one Northern Pike were staging below the outlet. Below is a photo from 2019 (left) and 2018 (right);

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- Finally, there was an observable difference (visually) in water quality in 2019 (left) versus 2018 (right) in Camp Lake since water had been diverted;



Conclusion

As proposed, the partial diversion of flows into Camp Lake from Sherlett Lake have not shown significant evidence of reducing the viability of Lower Sherlett Creek as spawning habitat for spring-spawning fishes from observations collected this year.